Field id	lentific	cation: BowerOut Year: 2019 Cro	p: Alfalfa/Grass		
Expect	ed Cro	p Yield: 3 ton/ac			
Phosph	norus i	ndex results or Phosphorus application fro	m soil test: P Index	3 3338	
		and Application: Rear Discharge			
When	will ap	plication occur: Oct			
		Nutrient Budget	Nitrogen-based Application	Phosphorus-based Application	Source of information
1		Crop Nutrient Needs, lbs/acre	150.00		MSU
2	(-)	Credits from previous legume crops, or soil test lbs/ac	80.00		DEQ9
3	(-)	Residuals from past manure production lbs/acre (if no new soil test)	33.00		DEQ9
4	(-)	Nutrients from commercial fertilizer and biosolids, lbs/acre	0.00		
5	(-)	Nutrients supplied in irrigation water, lbs/acre	0.00		
6		= Additional Nutrients Needed, lbs/acre	37.00	0.00	
7		Total Nitrogen and Phosphorus in manure, lbs/ton or lbs/1000 gal (from manure test)	28.00		Test
8	(x)	Nutrient Availability factor, for Phosphorus based application use 1.0	0.60	1.00	MSU
9		= Available Nutrients in Manure, lbs/ton or lbs/1000 gal	16.80	0.00	
10		Additional Nutrients needed, lbs/acre (calculated above)	37.00	0.00	
11	(/)	Available Nutrients in Manure, lbs/ton or lbs/1000 gal (calculated above)	16.80	0.00	
12		= Manure Application Rate, tons/acre or 1000 gal/acre	2.20238095238	NaN	

Comments

Field id	Field identification: S Out Year: 2019 Crop: Alfalfa/Grass						
Expecte	Expected Crop Yield: 3 ton/ac						
Phosph	orus i	ndex results or Phosphorus application fro	m soil test: P Index				
Method	d of La	nd Application: Rear Discharge					
When v	vill ap	plication occur: Oct					
		Nutrient Budget	Nitrogen-based	Phosphorus-based	Source of		
		1. 100417. 100417. 100417.	Application	Application	information		
1		Crop Nutrient Needs, lbs/acre	150.00		MSU		
2	(-)	Credits from previous legume crops, or	80.00	200 C 2 A 2 C A 2	DEQ9		
	(-)	soil test lbs/ac	80.00		DEQ		
3	(-)	Residuals from past manure production	30.00		DEQ9		
	(-)	lbs/acre (if no new soil test)	30.00		DEQU		
4	(-)	Nutrients from commercial	0.00				
	()	fertilizer and biosolids, lbs/acre	0.00				
5	(-)	Nutrients supplied in irrigation water,	0.00				
	()	lbs/acre	0.00				
6		= Additional Nutrients Needed,	40.00	0.00			
		lbs/acre	10.00	U. U			
		Total Nitrogen and Phosphorus in			Test		
7		manure, lbs/ton or lbs/1000 gal (from	28.00				
		manure test)					
8	(x)	Nutrient Availability factor, for	0.60	1.00	MSU		
		Phosphorus based application use 1.0					
9		= Available Nutrients in Manure,	16.80	0.00			
<u></u>		lbs/ton or lbs/1000 gal					
		Additional Nutrients pended the lasts					
10	İ	Additional Nutrients needed, lbs/acre (calculated above)	40.00	0.00			
		Available Nutrients in Manure, lbs/ton					
11	(/)	or lbs/1000 gal (calculated above)	16.80	0.00			
		= Manure Application Rate, tons/acre					
12		or 1000 gal/acre	2.3809523809	NaN			

Co	m	m	en	tς
CU			· · ·	~

Field id	entific	cation: BowerPiv Year: 2019 Cro	p: Alfalfa	(1)	
Expecte	ed Cro	p Yield: 7 ton/ac			When the second
Phosph	orus i	ndex results or Phosphorus application fro	m soil test: P Index		
	****	nd Application: Rear Discharge			
When v	will ap	plication occur: Oct			
		Nutrient Budget	Nitrogen-based Application	Phosphorus-based Application	Source of information
1		Crop Nutrient Needs, lbs/acre	336.00	A. A	MSU
2	(-)	Credits from previous legume crops, or soil test lbs/ac	80.00		DEQ9
3	(-)	Residuals from past manure production lbs/acre (if no new soil test)	30.00		DEQ9
4	(-)	Nutrients from commercial fertilizer and biosolids, lbs/acre	0.00		
5	(-)	Nutrients supplied in irrigation water, lbs/acre	0.00		
6		= Additional Nutrients Needed, lbs/acre	226.00	0.00	
7		Total Nitrogen and Phosphorus in manure, lbs/ton or lbs/1000 gal (from manure test)	28.00		Test
8	(x)	Nutrient Availability factor, for Phosphorus based application use 1.0	0.60	1.00	MSU
9		= Available Nutrients in Manure, lbs/ton or lbs/1000 gal	16.80	0.00	
10		Additional Nutrients needed, lbs/acre (calculated above)	226.00	0.00	
11	(/)	Available Nutrients in Manure, lbs/ton or lbs/1000 gal (calculated above)	16.80	0.00	
12		= Manure Application Rate, tons/acre or 1000 gal/acre	13.4523809523	NaN	

Comments	Co	mm	nen	its
----------	----	----	-----	-----

Field id	lentific	ration: East Piv Year: 2019 Cro	p: Alfalfa	***************************************	
Expect	ed Cro	p Yield: 7 ton/ac			
Phosph	orus i	ndex results or Phosphorus application fro	m soil test: P Index		
Metho	d of La	nd Application: Rear Discharge			
When \	will ap	plication occur: Oct			
		Nutrient Budget	Nitrogen-based	Phosphorus-based	Source of
			Application	Application	information
1		Crop Nutrient Needs, lbs/acre	336.00		MSU
2	(-)	Credits from previous legume crops, or	80.00		DEQ9
	()	soil test lbs/ac	00.00		DEQU
3	(-)	Residuals from past manure production	26.00		DEQ9
	` '	lbs/acre (if no new soil test)	20.00		DEGO
4	(-)	Nutrients from commercial	0.00		
4 (-)		fertilizer and biosolids, lbs/acre	0.00		
5	(-)	Nutrients supplied in irrigation water,	0.00		
	ļ `,	lbs/acre	0.00		
6		= Additional Nutrients Needed,	230.00	0.00	
		lbs/acre			
_		Total Nitrogen and Phosphorus in	00.00		Test
7		manure, lbs/ton or lbs/1000 gal (from	28.00		
		manure test) Nutrient Availability factor, for			
8	(x)	Phosphorus based application use 1.0	0.60	1.00	MSU
19544961		= Available Nutrients in Manure,			
9		lbs/ton or lbs/1000 gal	16.80	0.00	
		125, 101. 01. 125, 200 ga.			
		Additional Nutrients needed, lbs/acre			
10		(calculated above)	230.00	0.00	
		Available Nutrients in Manure, lbs/ton			
11	(/)	or lbs/1000 gal (calculated above)	16.80	0.00	
		= Manure Application Rate, tons/acre	40.000.170.460	N1 N1	
12		or 1000 gal/acre	13.6904761904	NaN	

Comments

Field identification: West Piv Year: 2019 Crop: Alfalfa Expected Crop Yield: 7 ton/ac Phosphorus index results or Phosphorus application from soil test: P Index Method of Land Application: Rear Discharge When will application occur: Oct Nitrogen-based **Nutrient Budget** Phosphorus-based Source of Application Application information 1 Crop Nutrient Needs, lbs/acre MSU 336.00 Credits from previous legume crops, or 2 (-) 80.00 DEQ9 soil test lbs/ac Residuals from past manure production 3 (-) 26.00 DEQ9 Ibs/acre (if no new soil test) Nutrients from commercial 4 (-) 0.00 fertilizer and biosolids, lbs/acre Nutrients supplied in irrigation water, 5 (-) 0.00 lbs/acre = Additional Nutrients Needed, 6 230.00 0.00 lbs/acre Total Nitrogen and Phosphorus in Test 7 manure, lbs/ton or lbs/1000 gal (from 28.00 manure test) Nutrient Availability factor, for 8 (x) 1.00 MSU 0.60 Phosphorus based application use 1.0 = Available Nutrients in Manure, 9 0.00 16.80 lbs/ton or lbs/1000 gal Additional Nutrients needed, lbs/acre 10 230.00 0.00 (calculated above) Available Nutrients in Manure, lbs/ton (/) 0.00 11 16.80 or lbs/1000 gal (calculated above) = Manure Application Rate, tons/acre 13.6904761904 12 NaN or 1000 gal/acre

(8)				
Co	m	m	or	te
CU	111		CI	ırs

Field identification: South Piv Year: 2019 Crop: Corn Expected Crop Yield: 30 ton/ac Phosphorus index results or Phosphorus application from soil test: P Index Method of Land Application: Rear Discharge When will application occur: Oct Nitrogen-based Phosphorus-based Source of **Nutrient Budget** Application Application information 1 Crop Nutrient Needs, lbs/acre MSU 270.00 Credits from previous legume crops, or 2 (-) 0.00 DEQ9 soil test lbs/ac Residuals from past manure production 3 (-)DEQ9 41.00 lbs/acre (if no new soil test) Nutrients from commercial 4 (-) 125.00 fertilizer and biosolids, lbs/acre Nutrients supplied in irrigation water, 5 (-) 0.00 lbs/acre = Additional Nutrients Needed, 6 104.00 0.00 lbs/acre Total Nitrogen and Phosphorus in Test 7 manure, lbs/ton or lbs/1000 gal (from 28.00 manure test) Nutrient Availability factor, for 8 (x) 1.00 MSU 0.60 Phosphorus based application use 1.0 = Available Nutrients in Manure, 9 16.80 0.00 lbs/ton or lbs/1000 gal Additional Nutrients needed, lbs/acre 10 0.00 104.00 (calculated above) Available Nutrients in Manure, lbs/ton (/) 0.00 11 16.80 or lbs/1000 gal (calculated above) = Manure Application Rate, tons/acre 12 6.19047619047 NaN or 1000 gal/acre

Comments			
			 THE SPECIAL PROPERTY OF THE SP
1			

1	
1	
1	
1	
1	
1	

Field identification: North Piv Year: 2019 Crop: Corn Expected Crop Yield: 30 ton/ac Phosphorus index results or Phosphorus application from soil test: P Index Method of Land Application: Rear Discharge When will application occur: Oct Nitrogen-based Phosphorus-based Source of **Nutrient Budget** Application Application information 1 Crop Nutrient Needs, lbs/acre MSU 270.00 Credits from previous legume crops, or 2 (-) 0.00 DEQ9 soil test lbs/ac Residuals from past manure production (-) 3 DEQ9 41.00 lbs/acre (if no new soil test) Nutrients from commercial 4 (-) 125.00 fertilizer and biosolids, lbs/acre Nutrients supplied in irrigation water, 5 (-) 0.00 lbs/acre = Additional Nutrients Needed, 6 104.00 0.00 lbs/acre Total Nitrogen and Phosphorus in Test 7 manure, lbs/ton or lbs/1000 gal (from 28.00 manure test) Nutrient Availability factor, for 8 (x) 1.00 MSU 0.60 Phosphorus based application use 1.0 = Available Nutrients in Manure, 9 16.80 0.00 lbs/ton or lbs/1000 gal Additional Nutrients needed, lbs/acre 10 0.00 104.00 (calculated above)

Comments

11

12

(/)

1	
1	
1	
1	
1	
1	
1	
1	
1	
1	
1	
1	
1	
1	
1	
L	

16.80

6.19047619047

0.00

NaN

Available Nutrients in Manure, lbs/ton

or lbs/1000 gal (calculated above)

= Manure Application Rate, tons/acre

or 1000 gal/acre